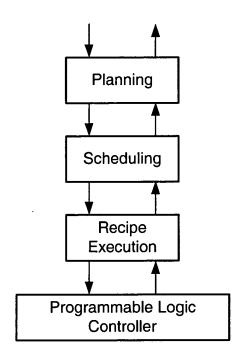
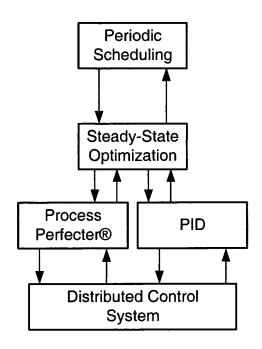


Replacement Sheet

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Typical Batch Operation



Typical Continuous Operation

Examples of traditional decision-making hierarchies

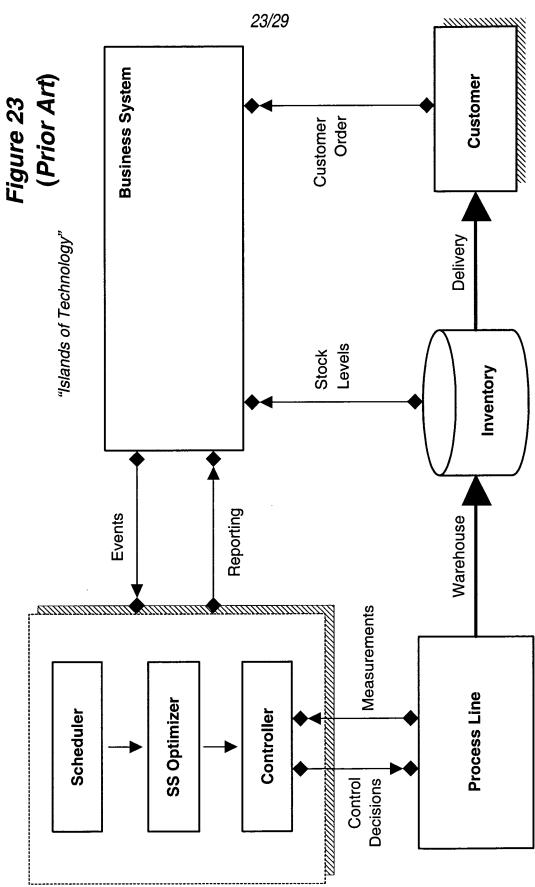
Figure 13

(Prior Art)



Traditional Approach

Replacement Sheet



Replacement Sheet



Traditional Production Scheduling

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time Continuous operation with small grade transitions • Inflexible sequence of grade changes Wheel minimizes transition size and scheduling flexibility **Production Wheel Strategy** Off-spec production during transitions $\mathbf{\omega}$ Melt Index (Grade)

Figure 25

(Prior Art)